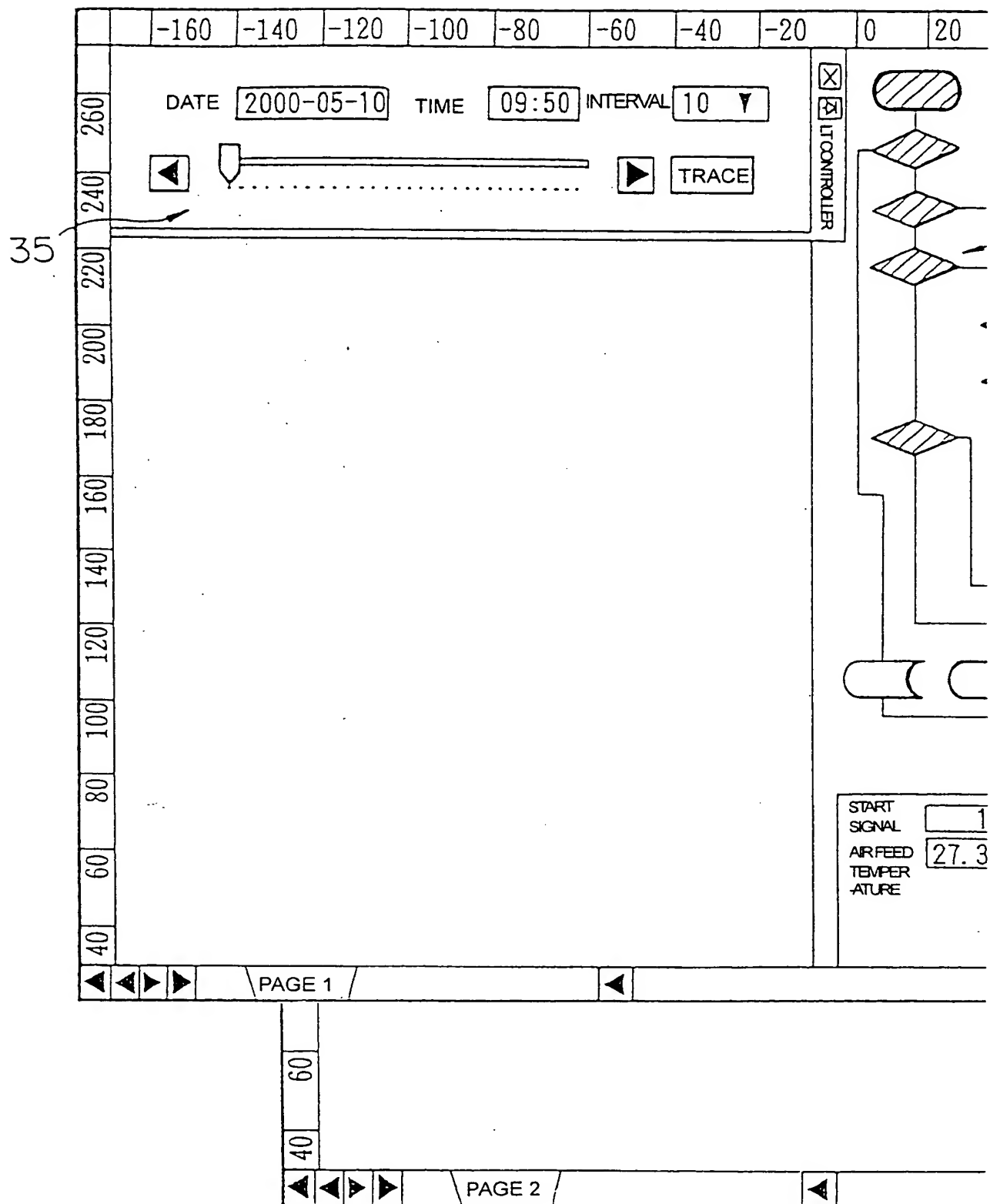


Fig. 1



# Fig. 1 (CONTINUED)

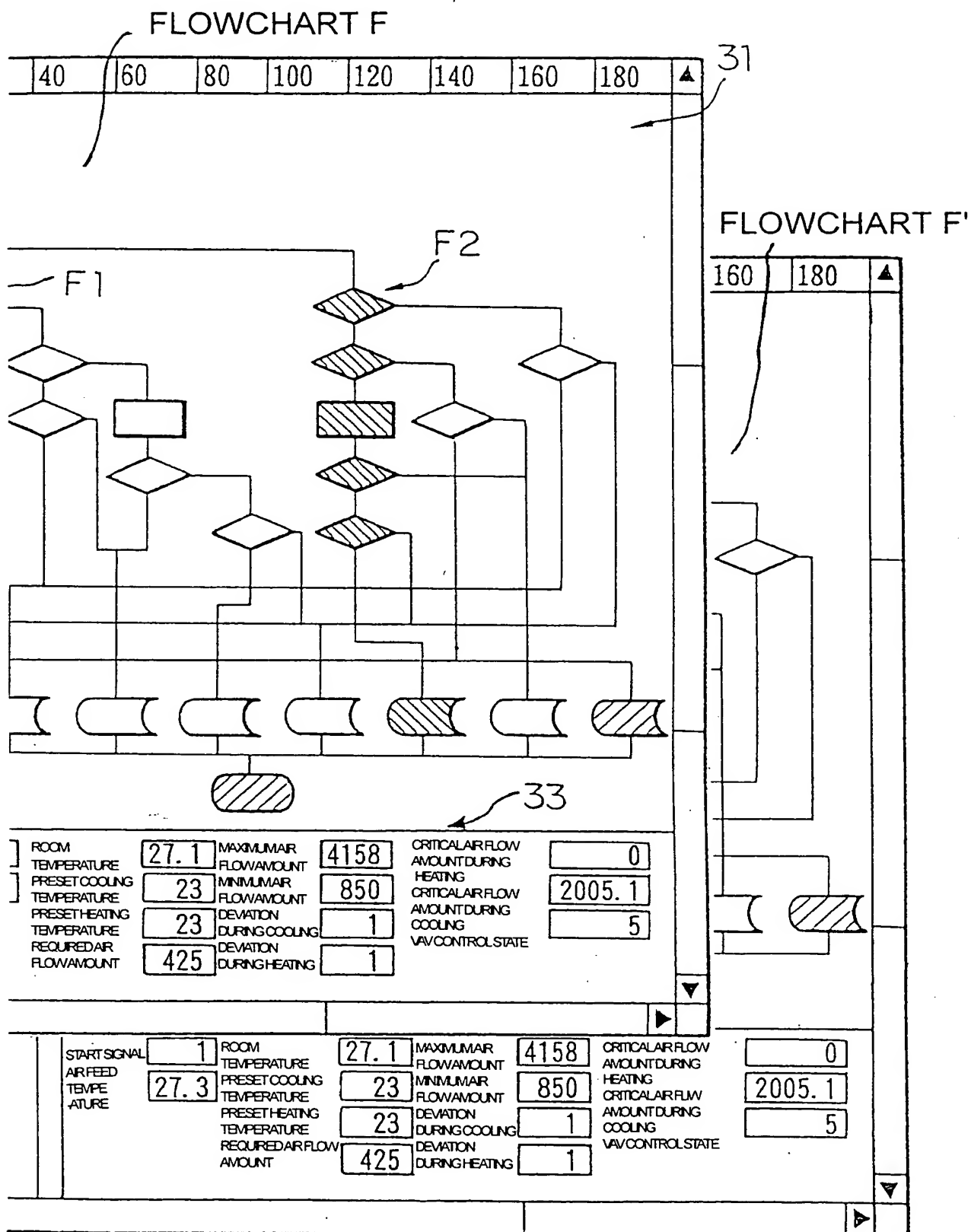


Fig. 2

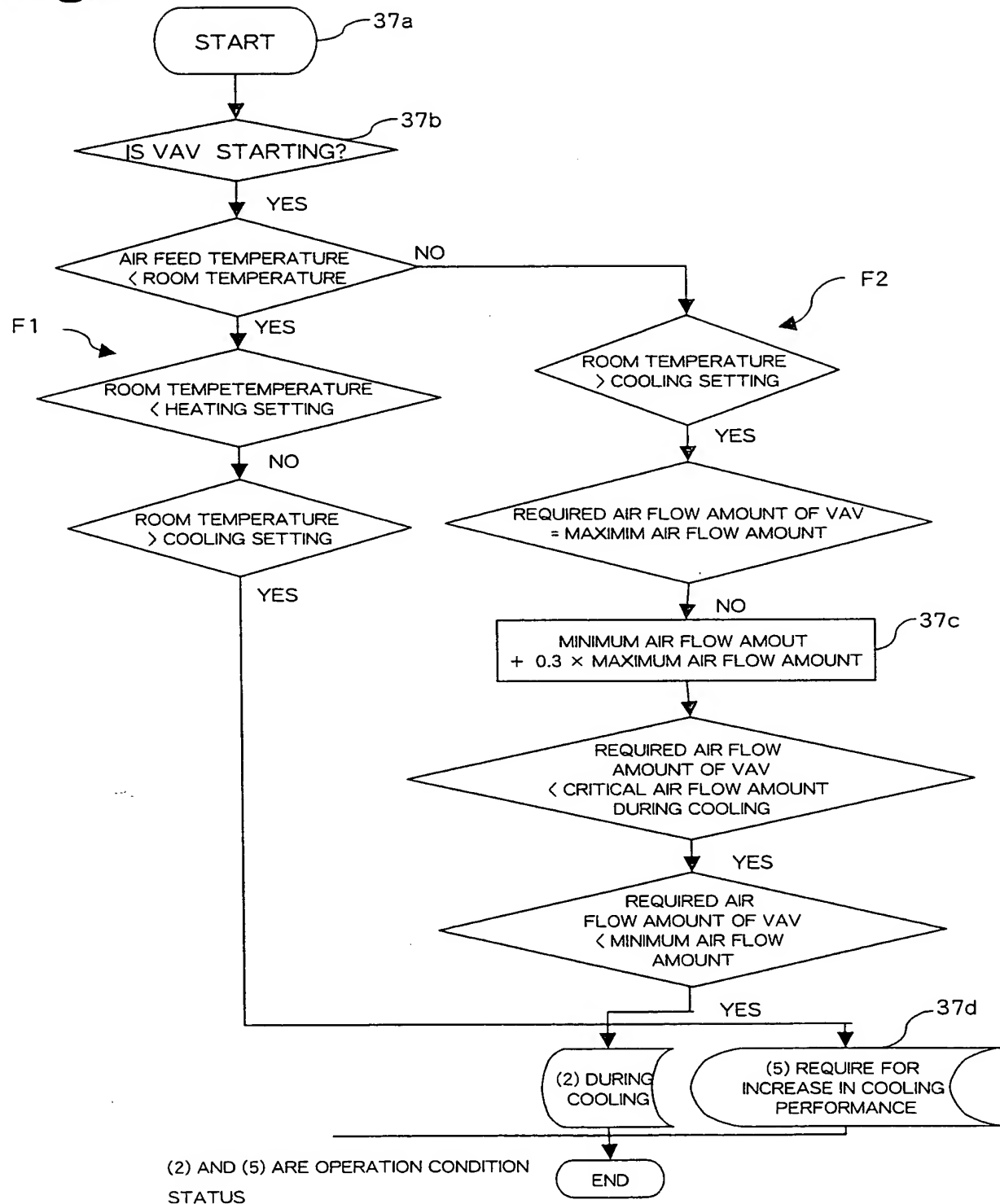


Fig. 3

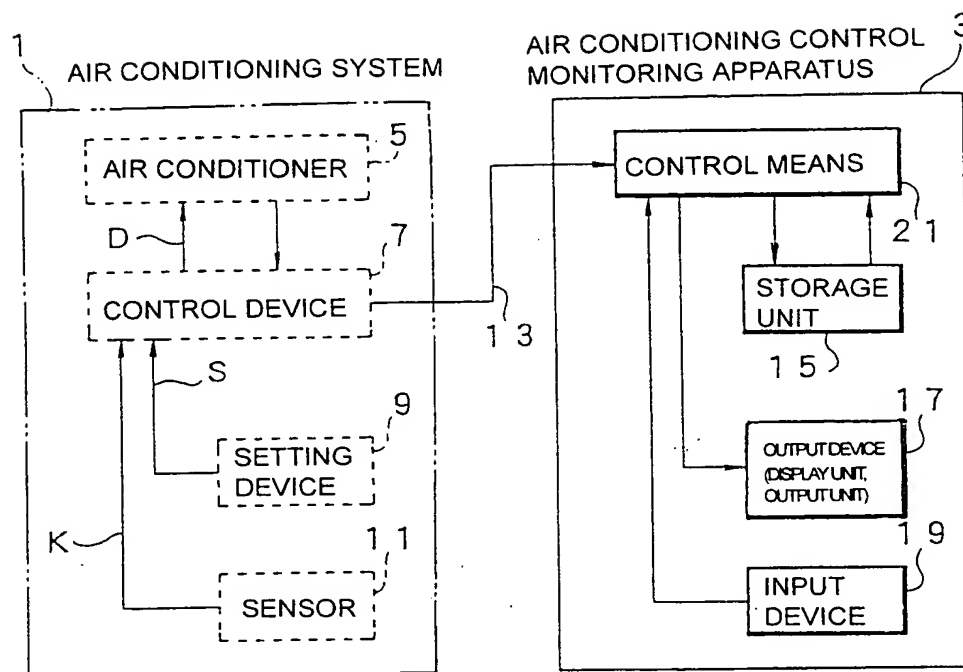


Fig. 4

	A	B	C	D	E	F	G
1					AHU-1		
2	SELECTED DATE	SELECTED TIME	DATE AND TIME	Index	START SIGNAL	AIR FEED TEMPERATURE	ROOM
3	2000-05-10	09:00	2000-05-10 09:00	1351	1	27	27.
4							
5	SELECTED VAV		PLACE	Index	MAXIMUM AIR FLOW AMOUNT	MINIMUM AIR FLOW AMOUNT	DEVIATION DURING
6	VAV-3		1F OFFICE (SOUTHWEST)	3	4158	850	
7							
8							
9	SPECIFIED DATE		2000-05-10 ▼	TIME		09:00 ▼	
10							
11	VAV		VAV-3 ▼				
12							
13							
14							
15	GRAPH DISPLAY 1		AHU-1 LINE VAV AIR FEED TEMPERATURE ▼				
16	GRAPH DISPLAY 2		VAV-3 1F RECEPTION ROOM TEMPERATURE ▼				
17	GRAPH DISPLAY 3		VAV-3 REQUIRED AIR FLOW AMOUNT ▼				
18	GRAPH DISPLAY 4		▼				
19	GRAPH DISPLAY 5		▼				
20	GRAPH DISPLAY 6		▼				
21	RANGE OF GRAPH		07:00 ▼	~	23:50 ▼		
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							

43

Time	Triangle Series (°C)	Square Series (°C)	Circle Series (°C)
07:00	10.0	25.0	25.0
07:40	38.0	25.0	25.0
08:20	15.0	25.0	38.0

◀ ▶ ▶▶

CONTROLLER

SETTING PARAMETER

TIME SEQUENTIAL MEASURED DATA

Fig. 4 (CONTINUED)

	H	I	J	K	L	M	N	O	P	Q	▲
	VAV-3										
TEMPERATURE	PRESET COOLING TEMPERATURE	PRESET HEATING TEMPERATURE	REQUIRED AIR FLOW AMOUNT								
2	23	23	2079								

COOLING	DEVIATION DURING HEATING	Visio DRAWING
1	1	2000 VAV. v s d

PLOTTING GRAPH

Visio SETTING

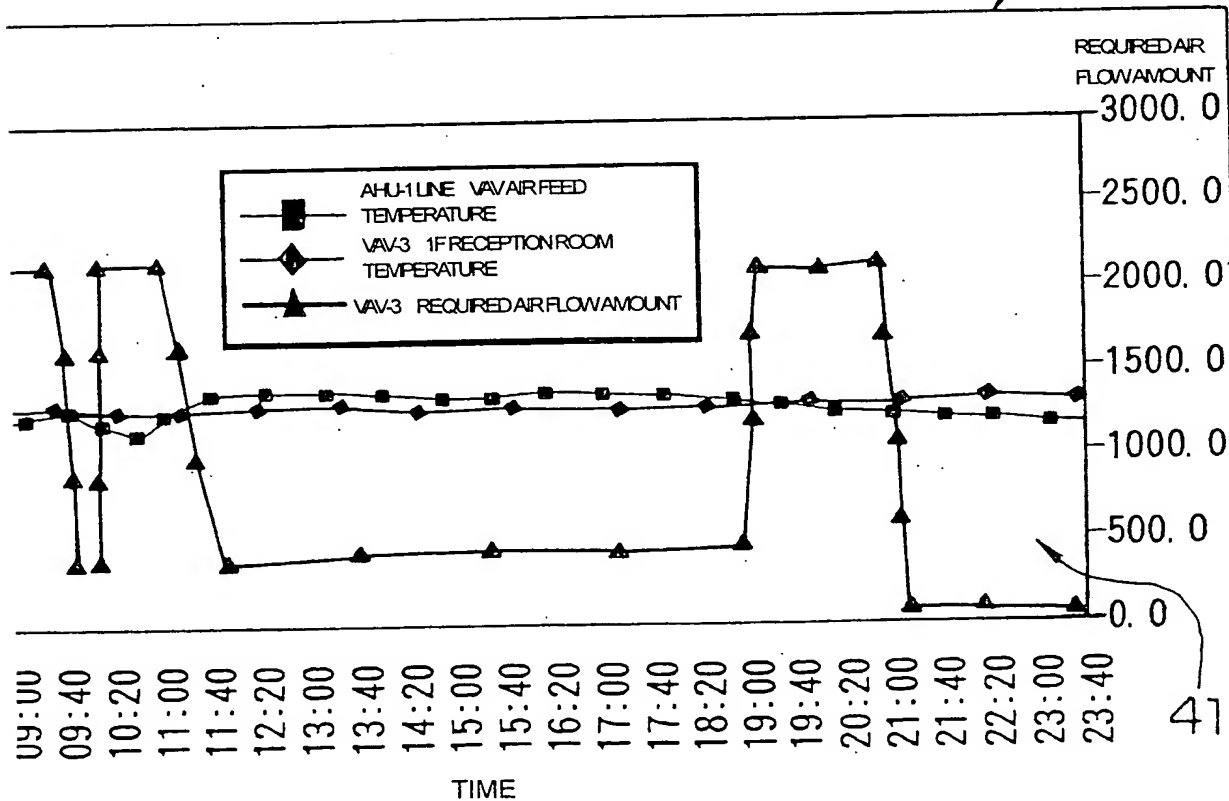


Fig. 5

	A	B	C	D	E	F	G
1				MAXIMUM AIR FLOW/AMOUNT	MINIMUM AIR FLOW/AMOUNT	CRITICAL FLOW AMOUNT DURING COOLING	CRITICAL AIR FLOW AMOUNT DURING HEATING
2				m3/h	m3/h	m3/h	m3/h
3	VAN1	1	1F RECEPTION ROOM	290	60	147	203
4	VAN2	2	1F OFFICE (NORTHWEST)	2079	425	1048.7	1455.3
5	VAN3	3	1F OFFICE (SOUTHWEST)	4158	850	2097.4	2910.6
6	VAN4	4	1F OFFICE INTERIOR (NORTH)	1380	600	1014	966
7	VAN5	5	1F OFFICE INTERIOR (EAST)	1380	600	1014	966
8	VAN6	6	1F OFFICE INTERIOR (SOUTH)	1380	600	1014	966
9	VAN7	7	1F OFFICE PERIMETER (NORTH)	1380	0	414	966
10	VAN8	8	1F OFFICE PERIMETER (SOUTH)	1380	0	414	966
11	VAN9	9	1F INTERIOR (EAST)	1380	250	664	966
12	VAN10	10	1F INTERIOR (WEST)	1380	250	664	966
13	VAN11	11	1F GUESTROOM INTERIOR	1380	250	664	966
14	VAN12	12	1F GUESTROOM PERIMETER	1380	0	414	966
15	VAN13	13	1F EXHIBITION ROOM PERIMETER	1380	0	414	966
16	VAN14	14	2F REFRESH CORNER	200	60	120	140
17	VAN15	15	2F HEALTH CARE ROOM	1340	0	402	938
18	VAN16	16	2F OFFICE (NORTHWEST)	2610	730	1513	1827
19	VAN17	17	2F OFFICE (SOUTHWEST)	2320	650	1346	1624
20	VAN18	18	2F OFFICE (NORTHEAST)	2790	785	1622	1953
21	VAN19	19	2F OFFICE (SOUTHEAST)	2790	785	1622	1953
22	VAN20	20	3F REFRESH CORNER	200	60	120	140
23	VAN21	21	3F MEETING ROOM C	870	0	261	609
24	VAN22	22	3F OFFICE (NORTHWEST)	2934	975	1855.2	2053.8
25	VAN23	23	3F OFFICE (SOUTHWEST)	2934	975	1855.2	2053.8
26	VAN24	24	3F OFFICE (NORTHEAST)	3159	1050	1997.7	2211.3
27	VAN25	25	3F OFFICE (SOUTHEAST)	3167	1050	2000.1	2216.9
28	VAN26	26	4F RESTAURANT	3120	1820	2756	2184
29	VAN27	27	4F CONVENTION BUREAU (WEST)	1400	0	420	990
<div> <div>◀◀▶▶</div> <div>CONTROLLER</div> <div>SETTING PARAMETER</div> <div>TIME SEQUENTIAL MEASURED DATA</div> </div>							

[illegible]



Fig. 6 (CONTINUED)

	H	I	J	K	L	M	N	A
	AHU-2 LINE VAV AIR FEED TEMPERATURE	VAV-1 1F RECEPTION ROOM TEMPERATURE	VAV-1 1F RECEPTION ROOM HEATING OR COOLING SETTING	VAV-1 REQUIRED AIR FLOW AMOUNT	VAV-2 1F RECEPTION ROOM TEMPERATURE	VAV-2 1F RECEPTION ROOM TEMPERATURE HEATING OR COOLING SETTING	VAV-2 REQUIRED AIR FLOW AMOUNT	
2	TEMP-004	VTE-001	VCPA-001	VFEA-001	VTE-002	VCPA-002	VFEA-002	
	°C	°C	°C	m <sup>3</sup> /h	°C	°C	m <sup>3</sup> /h	
	22.3	22.1	23.0	0.0	26.7	23.0		
	22.4	22.1	23.0	0.0	26.7	23.0		
	22.4	22.1	23.0	0.0	26.6	23.0		
	22.4	22.1	23.0	0.0	26.5	23.0		
	22.4	22.1	23.0	0.0	26.4	23.0		
	22.4	22.1	23.0	0.0	26.3	23.0		
	22.5	22.1	23.0	0.0	26.2	23.0		
	22.5	22.0	23.0	0.0	26.1	23.0		
	22.5	22.0	23.0	0.0	26.1	23.0		
	22.5	22.0	23.0	0.0	26.0	23.0		
	22.5	22.0	23.0	0.0	26.0	23.0		
	22.5	22.0	23.0	0.0	25.9	23.0		
	22.5	22.0	23.0	0.0	25.9	23.0		
	22.6	22.0	23.0	0.0	25.8	23.0		
	22.6	22.0	23.0	0.0	25.8	23.0		
	22.6	21.9	23.0	0.0	25.8	23.0		
	22.6	21.9	23.0	0.0	25.7	23.0		
	22.6	21.9	23.0	0.0	25.7	23.0		
	22.6	21.9	23.0	0.0	25.7	23.0		
	22.6	21.9	23.0	0.0	25.6	23.0		
	22.6	21.9	23.0	0.0	25.6	23.0		
	22.7	21.9	23.0	0.0	25.6	23.0		
	22.7	21.9	23.0	0.0	25.6	23.0		
	22.7	21.9	23.0	0.0	25.6	23.0		
	22.7	21.9	23.0	0.0	25.5	23.0		
	22.7	21.9	23.0	0.0	25.5	23.0		
	22.7	21.9	23.0	0.0	25.5	23.0		
	22.7	21.8	23.0	0.0	25.5	23.0		
	22.7	21.8	23.0	0.0	25.4	23.0		
	22.7	21.8	23.0	0.0	25.4	23.0		

Fig. 6

	A	B	C	D	E	F	G
1					AHU-1LINE VAV START SIGNAL	AHU-1LINE VAV AIR FEED TEMPERATURE	AHU-2LINE VAV START SIGNAL
2	DATE	TIME			AHU-001	TEMP-001	AHU-00
3					ON/OFF	℃	ON/OFF
4	20000501	0	2000-05-01 00:00	1	0.0	23.2	0.0
5	20000501	1000	2000-05-01 00:10	2	0.0	23.2	0.0
6	20000501	2000	2000-05-01 00:20	3	0.0	23.2	0.0
7	20000501	3000	2000-05-01 00:30	4	0.0	23.2	0.0
8	20000501	4000	2000-05-01 00:40	5	0.0	23.1	0.0
9	20000501	5000	2000-05-01 00:50	6	0.0	23.1	0.0
10	20000501	10000	2000-05-01 01:00	7	0.0	23.1	0.0
11	20000501	11000	2000-05-01 01:10	8	0.0	23.1	0.0
12	20000501	12000	2000-05-01 01:20	9	0.0	23.1	0.0
13	20000501	13000	2000-05-01 01:30	10	0.0	23.1	0.0
14	20000501	14000	2000-05-01 01:40	11	0.0	23.0	0.0
15	20000501	15000	2000-05-01 01:50	12	0.0	23.0	0.0
16	20000501	20000	2000-05-01 02:00	13	0.0	23.0	0.0
17	20000501	21000	2000-05-01 02:10	14	0.0	23.0	0.0
18	20000501	22000	2000-05-01 02:20	15	0.0	23.0	0.0
19	20000501	23000	2000-05-01 02:30	16	0.0	23.0	0.0
20	20000501	24000	2000-05-01 02:40	17	0.0	22.9	0.0
21	20000501	25000	2000-05-01 02:50	18	0.0	22.9	0.0
22	20000501	30000	2000-05-01 03:00	19	0.0	22.9	0.0
23	20000501	31000	2000-05-01 03:10	20	0.0	22.9	0.0
24	20000501	32000	2000-05-01 03:20	21	0.0	22.9	0.0
25	20000501	33000	2000-05-01 03:30	22	0.0	22.9	0.0
26	20000501	34000	2000-05-01 03:40	23	0.0	22.9	0.0
27	20000501	35000	2000-05-01 03:50	24	0.0	22.9	0.0
28	20000501	40000	2000-05-01 04:00	25	0.0	22.9	0.0
29	20000501	41000	2000-05-01 04:10	26	0.0	22.8	0.0
30	20000501	42000	2000-05-01 04:20	27	0.0	22.8	0.0
31	20000501	43000	2000-05-01 04:30	28	0.0	22.8	0.0
32	20000501	44000	2000-05-01 04:40	29	0.0	22.8	0.0
33	20000501	45000	2000-05-01 04:50	30	0.0	22.8	0.0
<div> <div>◀◀▶▶</div> <div>CONTROLLER</div> <div>SETTING PARAMETER</div> </div>							